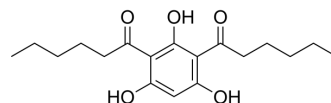


Hyp9

Cat. No.:	HY-N10756
CAS No.:	3118-34-1
Molecular Formula:	C ₁₈ H ₂₆ O ₅
Molecular Weight:	322.4
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hyp9 is a transient receptor potential canonical 6 (TRPC6)-specific agonist. Hyp9 can be used for the research of spinal cord injury (SCI) ^[1] .
In Vitro	HYP9 (0, 1, 5, 10, 15, 20, 25, 30 μM; 72 h) inhibits astrocyte proliferation in a dose-dependent manner ^[1] . HYP9 dramatically suppresses AP4 overexpression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]
	Cell Line: CTX-TNA2 rat astrocytes
	Concentration: 0, 1, 5, 10, 15, 20, 25, 30 μM
	Incubation Time: 72 h
	Result: Significantly inhibit astrocyte proliferation at 5-30 μM.
In Vivo	HP9 (intrathecally; 5 μg; 1, 3, 5, and 7 days) inhibits astrocyte activation and proliferation by inhibiting AQP4 in SCI rats in vivo models and that it preserves neuronal survival and functional recovery after SCI ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
	Animal Model: Sprague-Dawley Rats (180-220 g; adult female) ^[1]
	Dosage: 5 μg
	Administration: Intrathecally; 1, 3, 5, and 7 days
	Result: Inhibited activation and proliferation of astrocytes in a rat SCI model. Reduced apoptosis and promotes neuronal survival in SCI rats by TRPC6/AQP4 signaling pathway. Facilitated functional motor recovery via TRPC6/AQP4 signaling pathway in SCI rats.

REFERENCES

[1]. Jiajun Cai, et al. Upregulation of TRPC6 inhibits astrocyte activation and proliferation after spinal cord injury in rats by suppressing AQP4 expression. Brain Res Bull. 2022 Nov;190:12-21.

Caution: Product has not been fully validated for medical applications. For research use only.

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